



**DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY  
AFFAIRS (PERA)  
BOARD AND CODE ADMINISTRATION DIVISION  
NOTICE OF ACCEPTANCE (NOA)**

**MIAMI-DADE COUNTY, Florida  
PRODUCT CONTROL SECTION**  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/pera/](http://www.miamidade.gov/pera/)

**Kolbe & Kolbe Millwork Co., Inc.**  
1323 South 11<sup>th</sup> Ave.  
Wausau, WI 54401

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION:** Series "Heritage Manor" 98<sup>5</sup>/<sub>8</sub>" Outswing Glazed Wood Door – N.I.

**APPROVAL DOCUMENT:** Drawing No. 1063, titled "Wood Manor Series Non-Impact Door"; sheets 1 through 9 of 9, dated 4/10/2002, latest revision "B1", dated 10/12/2011, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren Schaefer, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING:** None.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series and following statement: "Miami-Dade County Product Control Approved" unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 07-0618.11 and consists of this page 1, evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



*J. Gascon*  
12/1/11

**NOA No. 11-1020.03**  
**Expiration Date: October 24, 2012**  
**Approval Date: December 08, 2011**  
**Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under previous NOA No.02-0617.02)*
2. Drawing No. 1063, titled "Wood Manor Series Non-Impact Door", sheets 1 through 9 of 9, dated 4/10/02, latest revision "B1", dated 10/12/11, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P. E.

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
along with marked-up drawings and installation diagram of 19 specimens of aluminum clad and non-clad wood doors and fixed/ transom, prepared by Architectural Testing, Inc., Test Report No. ATI 06-30303.01, dated 12/08/2001, signed and sealed by Steven Ulrich, P. E.  
*(Submitted under previous NOA No.02-0617.02)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 08/28/2007, signed and sealed by Warren W. Schaefer, P. E.  
*(Submitted under previous NOA No.07-0618.11)*

**D. QUALITY ASSURANCE**

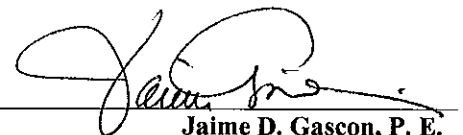
1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letter of conformance and compliance with the FBC-2010 and ANSI/ AAMA/ NWWDA 101/ I.S.2-97, dated 10/12/2011, signed and sealed by Warren W. Schaefer, P. E.
2. Statement letter of no financial interest and independence, dated 10/12/2011, signed and sealed by Warren W. Schaefer, P. E.

  
Jaime D. Gascon, P. E.

Product Control Section Supervisor

NOA No. 11-1020.03

Expiration Date: October 24, 2012

Approval Date: December 08, 2011

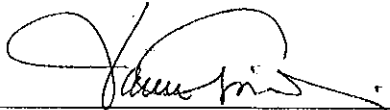
**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS (CONTINUED)**

3. Laboratory compliance letter for Test Report No. **ATI-06-30303.01**, issued by Architectural Testing, Inc., dated 12/08/01, signed and sealed by Steven Ulrich, P. E.  
*(Submitted under previous NOA No. 02-0617.02)*
4. Statement letter of no financial interest, conformance and compliance with the FBC-2007, dated 04/15/2007, signed and sealed by Warren W. Schaefer, P. E.  
*(Submitted under previous NOA No. 07-0618.11)*

**G. OTHERS**

1. Notice of Acceptance No. **07-0618.11**, issued to Kolbe & Kolbe Millwork Co., Inc. for their Series "Heritage Manor Outswing Glazed Wood Door – N.I.", approved on 11/01/2007 and expiring on 10/24/2012.



**Jaime D. Gascon, P. E.**  
**Product Control Section Supervisor**  
**NOA No. 11-1020.03**  
**Expiration Date: October 24, 2012**  
**Approval Date: December 08, 2011**

# GENERAL NOTES:

1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, FORCED ENTRY & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOL TAS-202 FOR NON-IMPACT DOORS.
5. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. THESE DOORS ARE NON-IMPACT RATED & MUST BE SHUTTERED WITH A FLORIDA CODE APPROVED SHUTTER WHERE REQUIRED BY CODE.
7. ALL ANCHORS SECURING DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF  $K_D = 0.85$  MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR  $C_D = 1.6$  WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF DOORS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

## ALLOWABLE DESIGN LOAD

SEE LOAD TABLES ON SHEET 9.

## HINGE REQUIREMENTS

DOOR HEIGHT	# HINGES REQ'D
ALL SIZES	4

NOTE: BRICK MOLDS MAY BE PLACED AT EXTERIOR & ARE OPTIONAL (NOT SHOWN)

## FRAME ANCHOR REQUIREMENTS TABLE

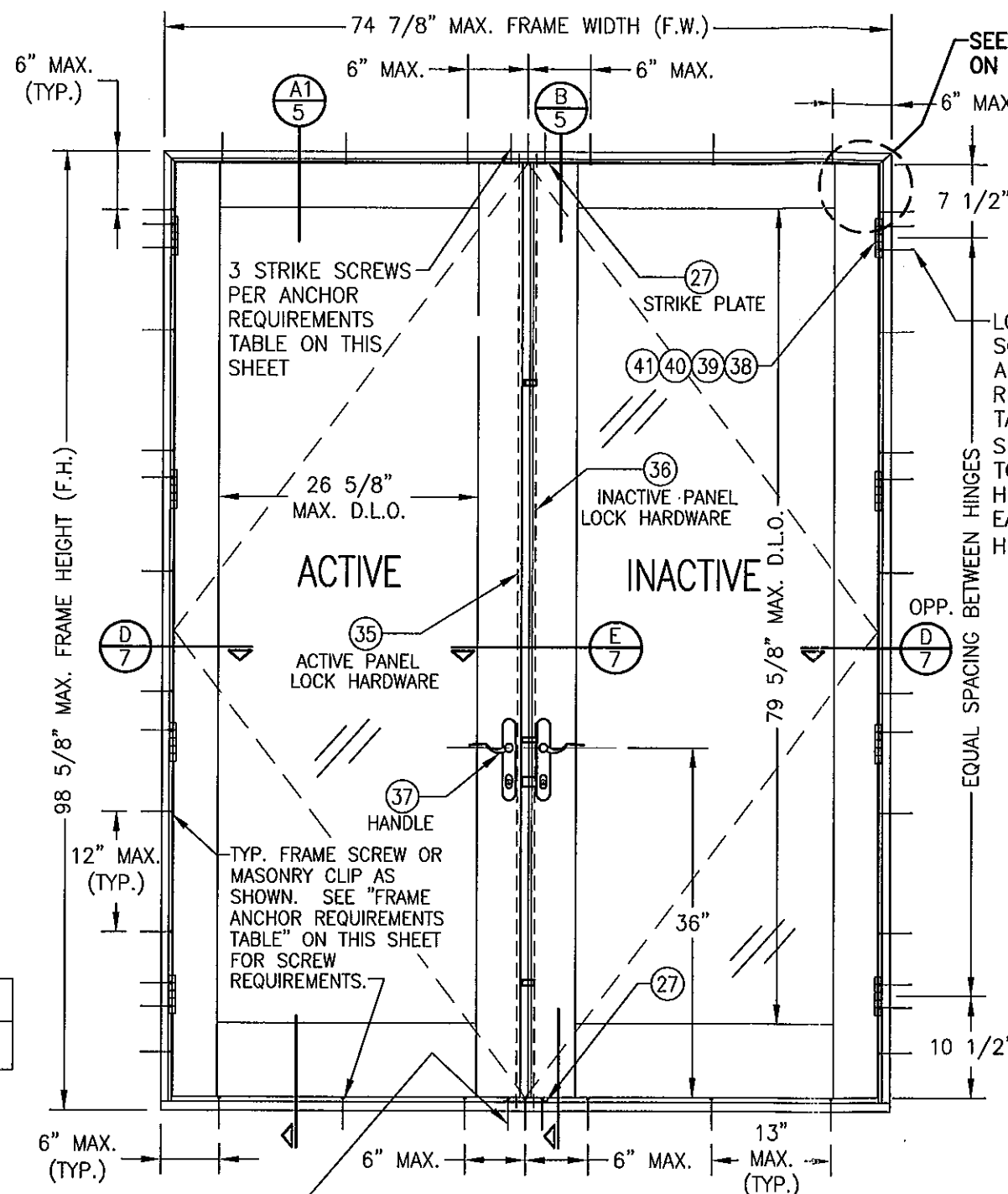
### FRAME/SILL SCREWS

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & $G=0.55$ )	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
(2) MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2"

## FRAME ANCHOR REQUIREMENTS TABLE

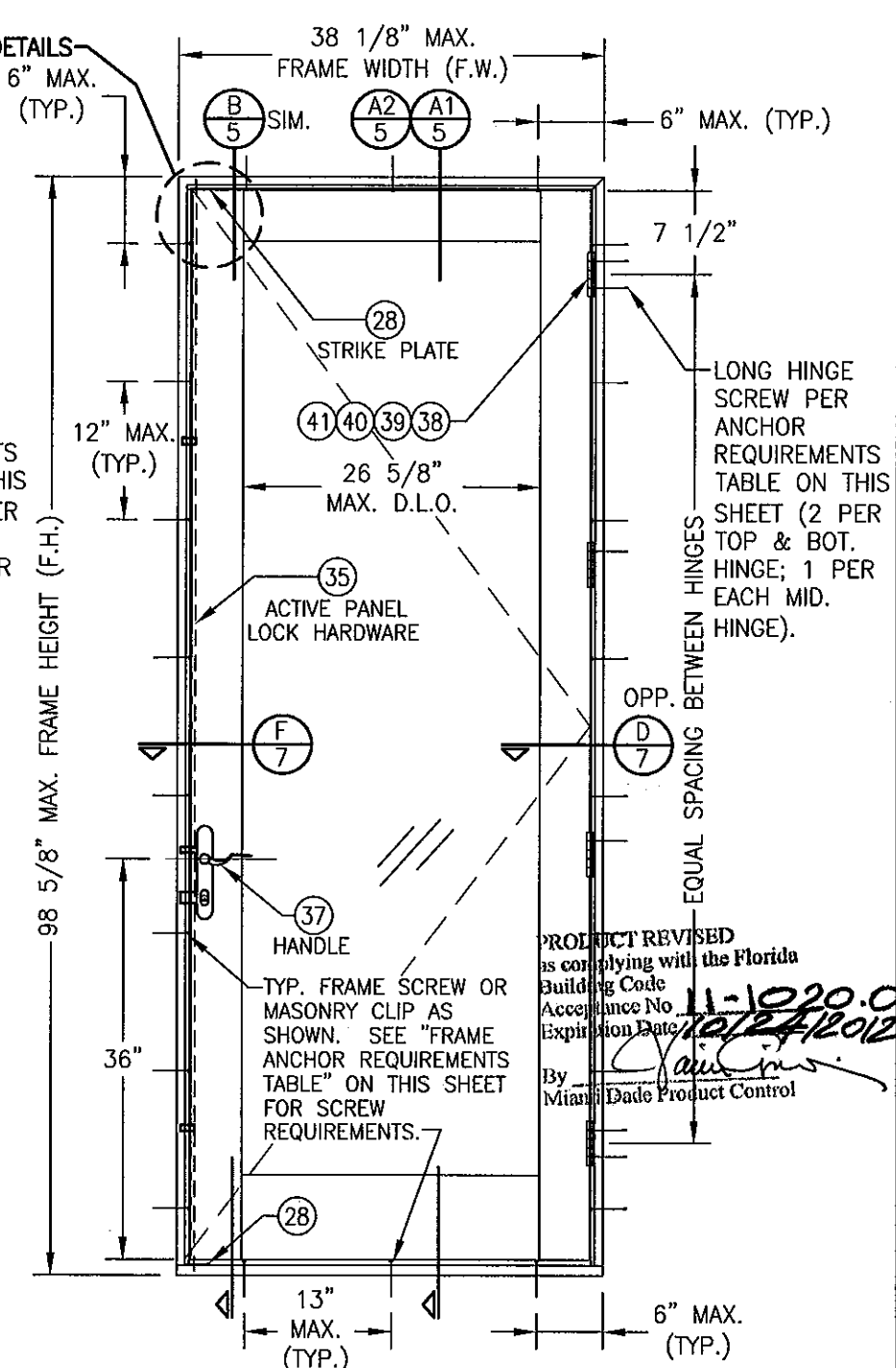
### HINGE & STRIKE SCREWS

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & $G=0.55$ )	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
C-90 CMU/2500 PSI CONCRETE	(1) 3/16" CONCRETE SCREW	1 1/4"	2"
(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).			
(2) CMU IS APPLICABLE AT SIDES ONLY.			



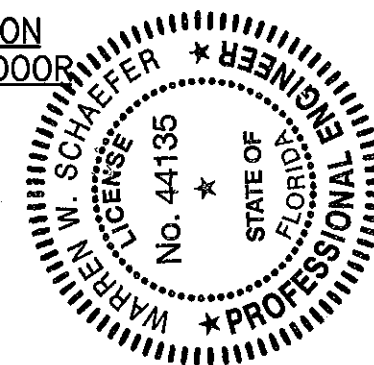
EXTERIOR ELEVATION  
DOUBLE OUTSWING DOOR

SCALE: 3/4"=1'-0"



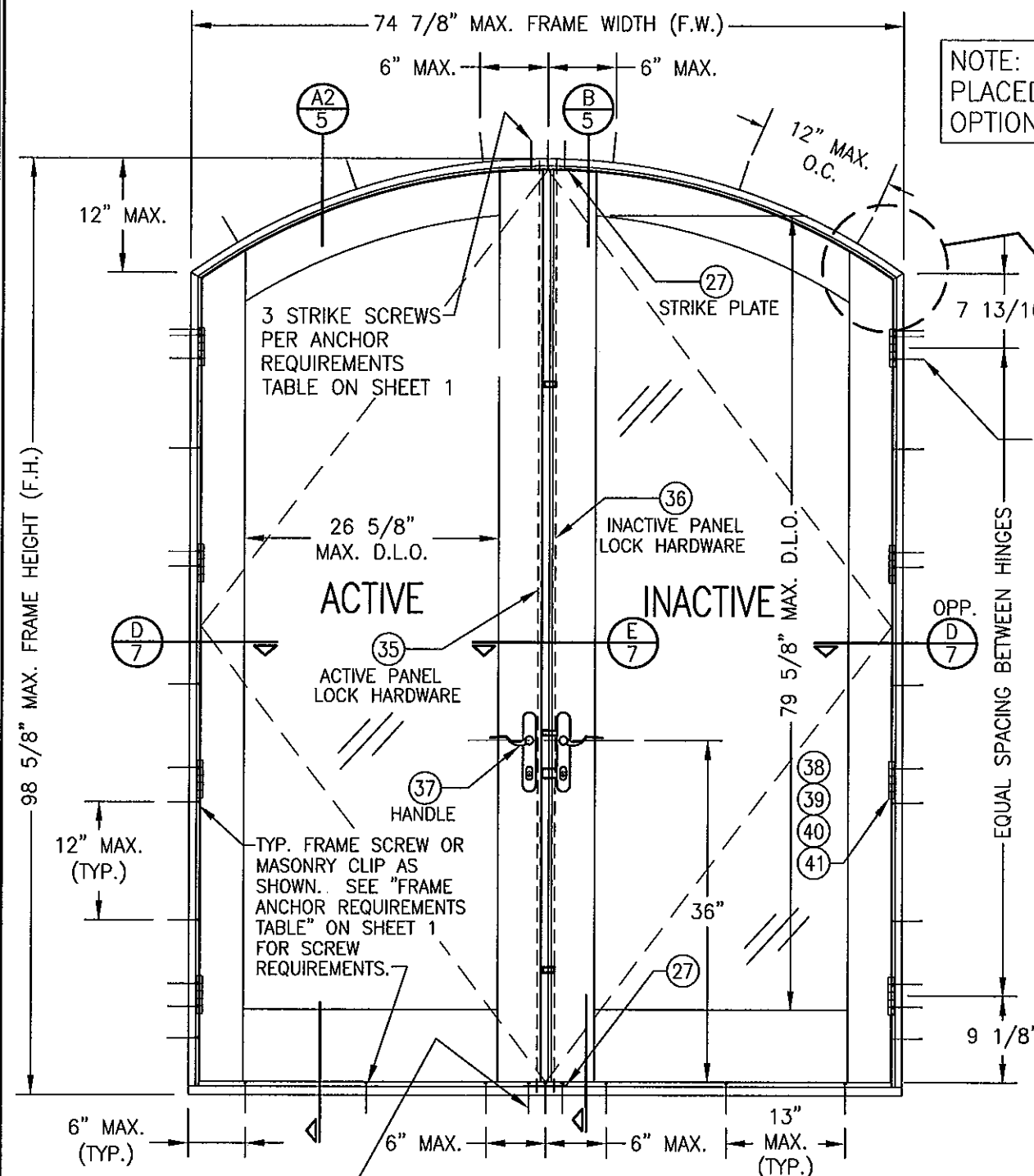
EXTERIOR ELEVATION  
SINGLE OUTSWING DOOR

SCALE: 3/4"=1'-0"

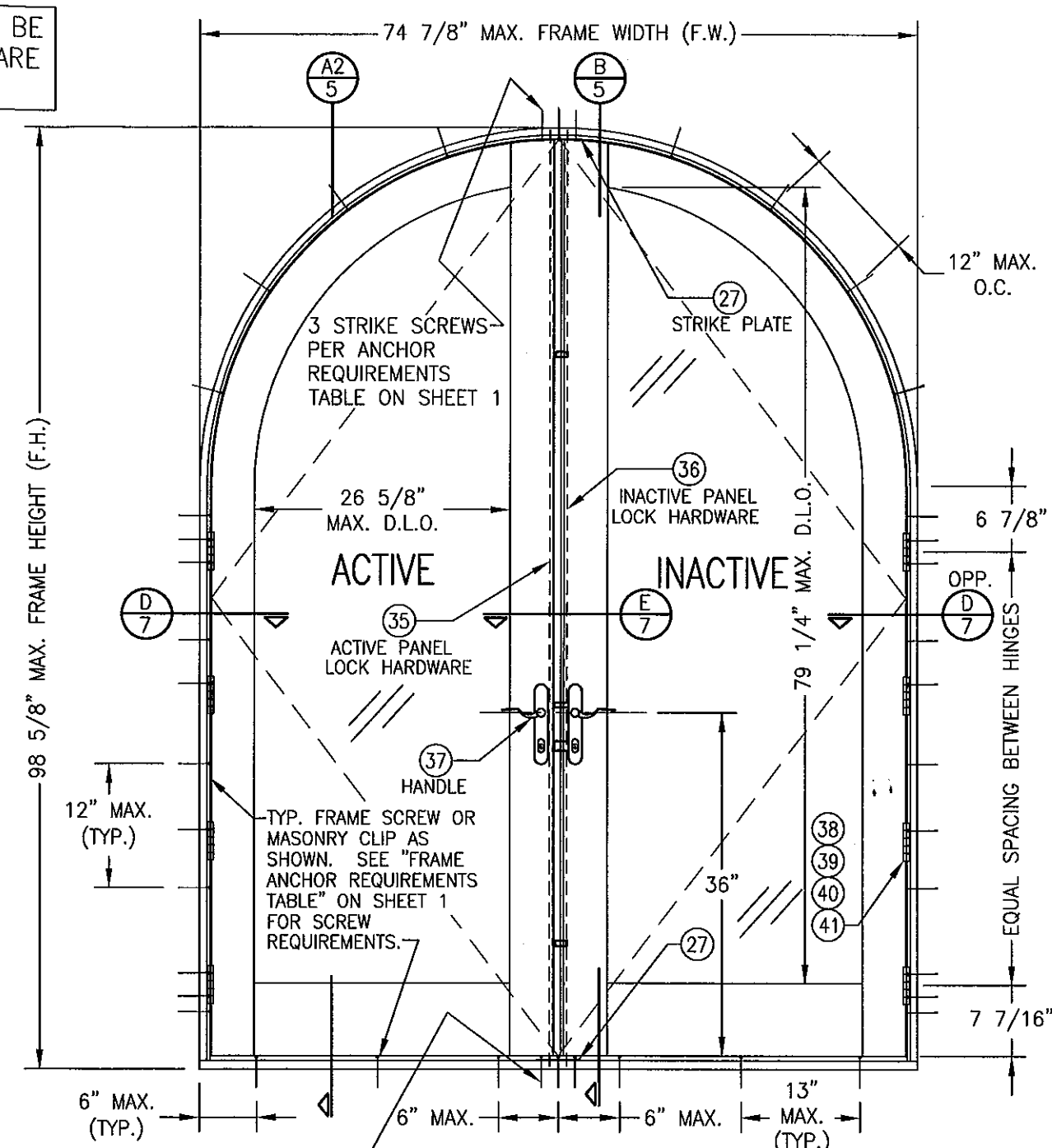


THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 04/10/02	
DATE	BY	REVISION	DESCRIPTION
08/28/07	W.R.M.	A1	UPDATE TO 2004 FBC
10/12/11	W.R.M.	B1	UPDATE TO CURRENT STANDARDS
WOOD MANOR SERIES NON-IMPACT DOOR			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		KOLBE & KOLBE MILLWORK CO., INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		1323 SOUTH 11TH AVE. WAUSAU, WI 54401 715-842-5666	
CERTIFICATION		DRAWING NO. 1063	
OCT 12 2011		REV. B	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135		SHEET NO. 1 OF 9	



NOTE: BRICK MOLDS MAY BE PLACED AT EXTERIOR & ARE OPTIONAL (NOT SHOWN)



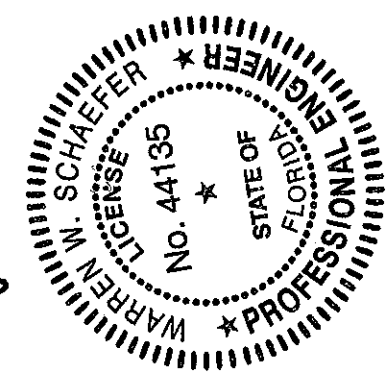
**EXTERIOR ELEVATION  
DOUBLE OUTSWING DOOR  
EYEBROW TOP**  
SCALE: 3/4"=1'-0"

**EXTERIOR ELEVATION  
DOUBLE OUTSWING DOOR  
HALF ROUND TOP**  
SCALE: 3/4"=1'-0"

ALLOWABLE DESIGN LOAD  
SEE LOAD TABLES ON SHEET 9.

FOR HINGE REQUIREMENTS, SEE  
SHEET 1.

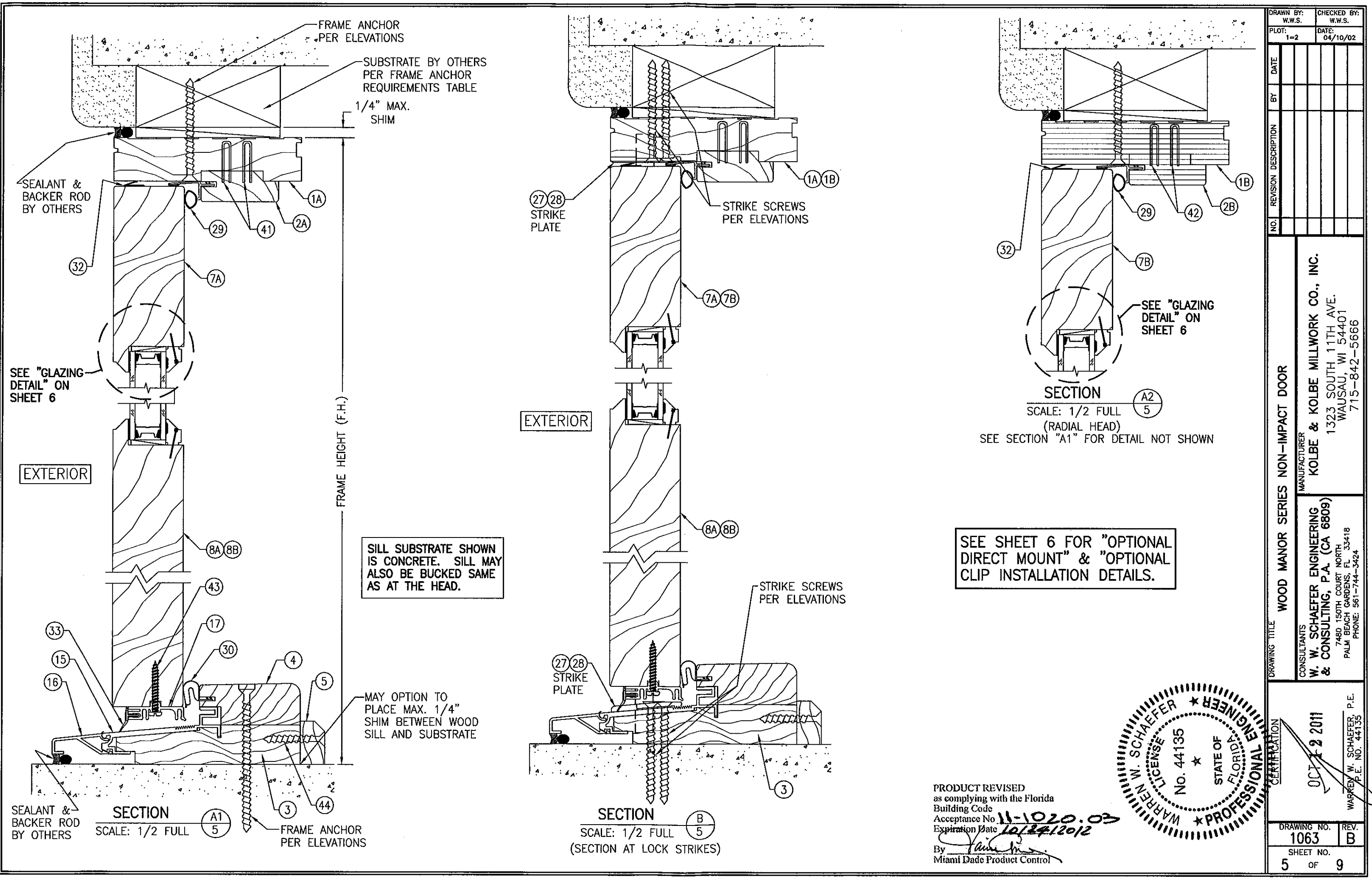
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 11-1020-03  
Expiration Date 10/24/2012  
By *[Signature]*  
Miami Dade Product Control



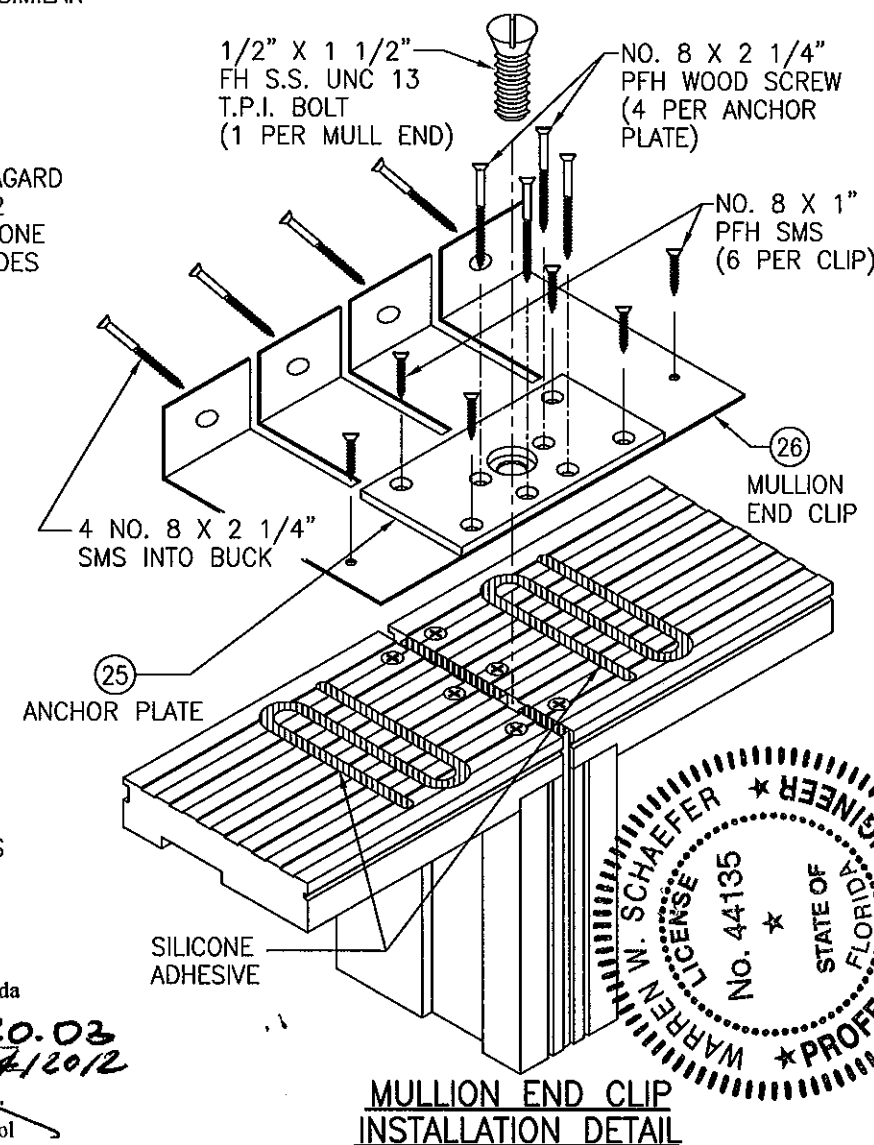
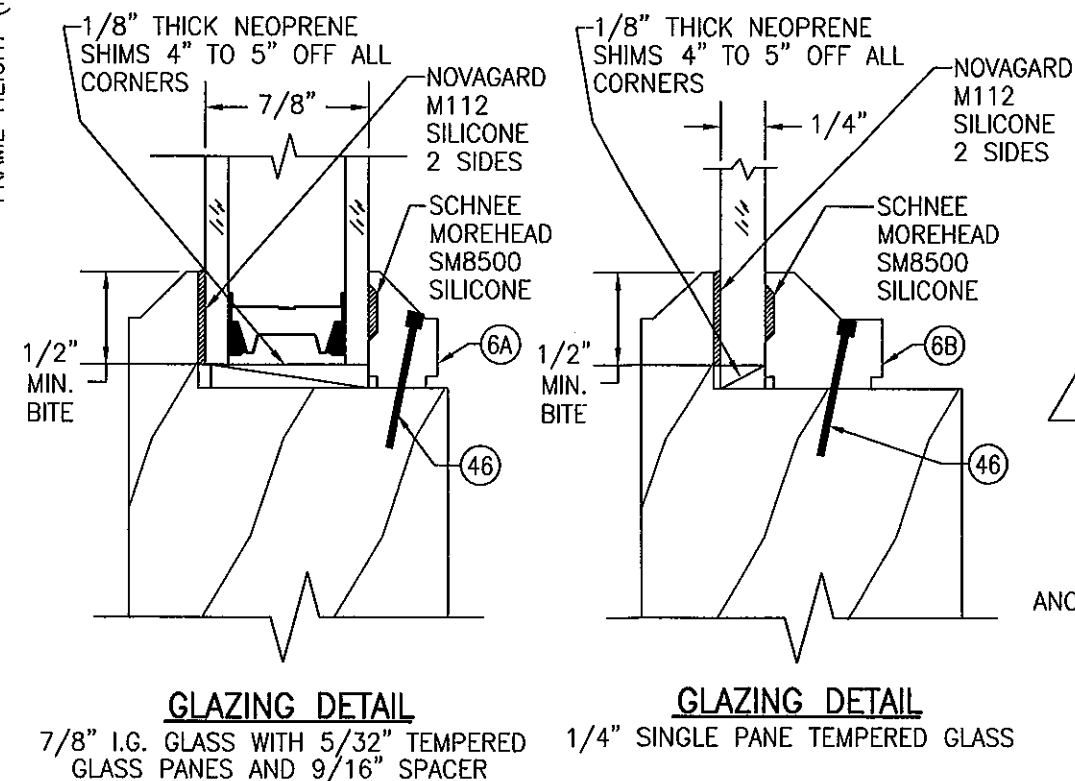
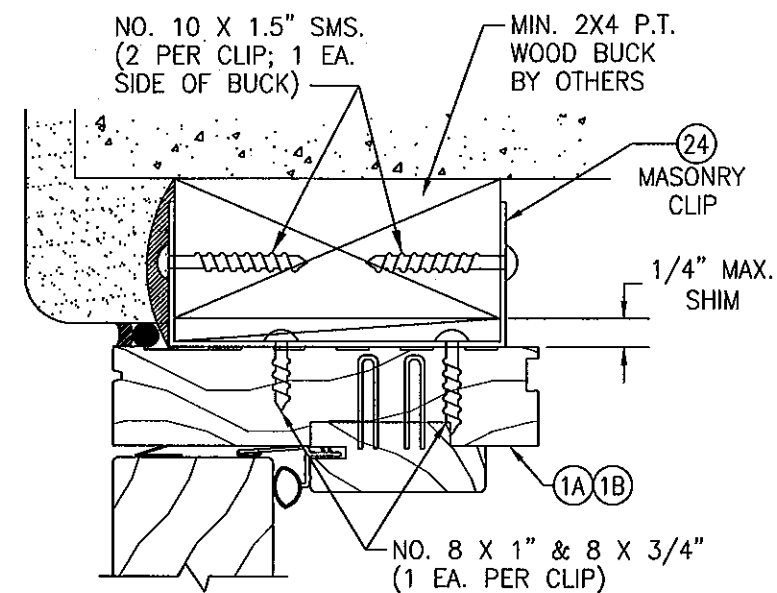
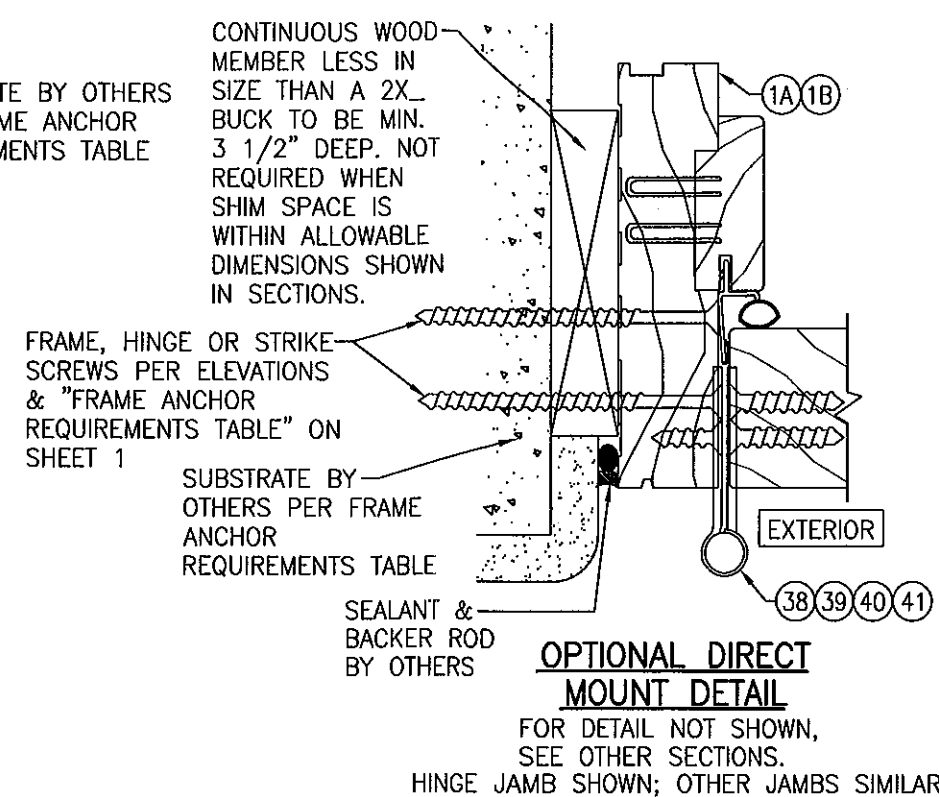
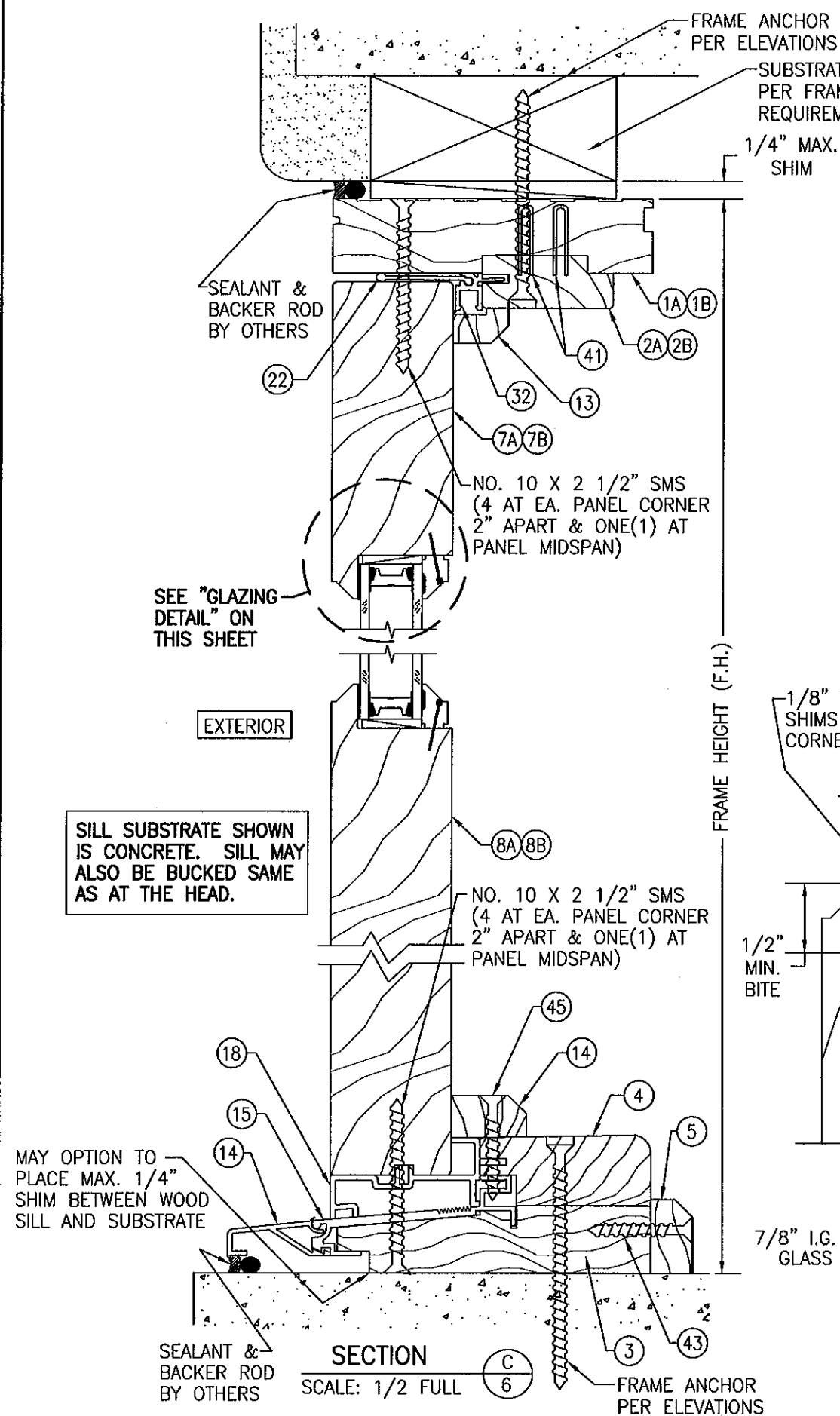
DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 04/10/02	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: WOOD MANOR SERIES NON-IMPACT DOOR			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: KOLBE & KOLBE MILLWORK CO., INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		1323 SOUTH 11TH AVE. WAUSAU, WI 54401 715-842-5666	
CERTIFICATION: OCT 12 2011		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1063		REV. B	
SHEET NO. 2		OF 9	

THE FOLLOWING ARE APPROVED COMBINATIONS:  
XX, OX, OO, OXO, XOX, OOO, OXX, XXX, OXXO, XXOO, XOOX, OOOO, XXXX









PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 11-1020.03  
Expiration Date 10/24/2012  
By Jain  
Miami Dade Product Control

A circular professional seal for Warren W. Schaefer, a Professional Engineer in the State of Florida. The seal features the text "WARREN W. SCHAEFER" around the top inner edge, "LICENSE" on the left, "No. 44135" in the center, "STATE OF" on the right, and "PROFESSIONAL ENGINEER" around the bottom inner edge. A five-pointed star is positioned at the bottom center of the seal.

DRAWING NO. <b>1063</b>		REV. <b>B</b>
SHEET NO. <b>6</b> OF <b>9</b>		

OCT 12 2011

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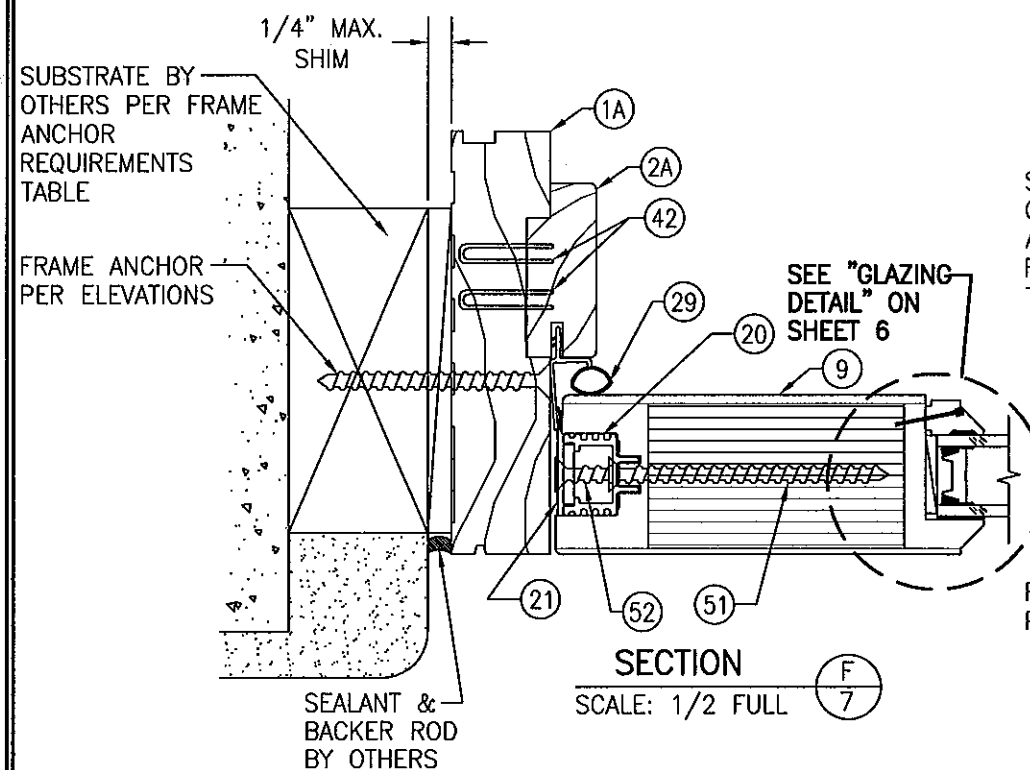
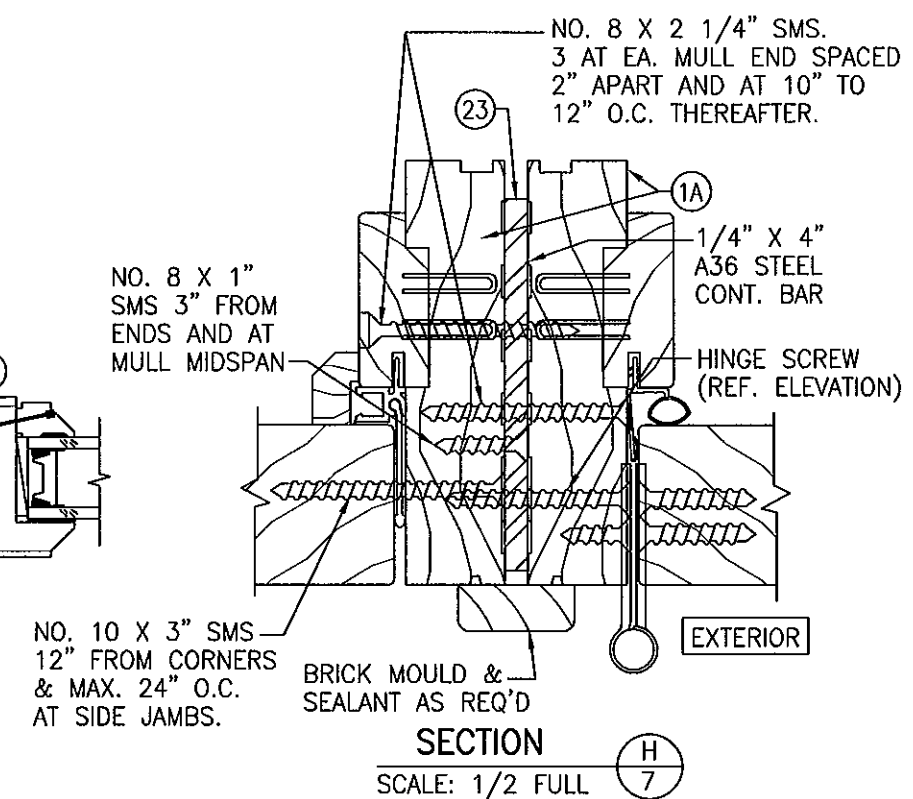
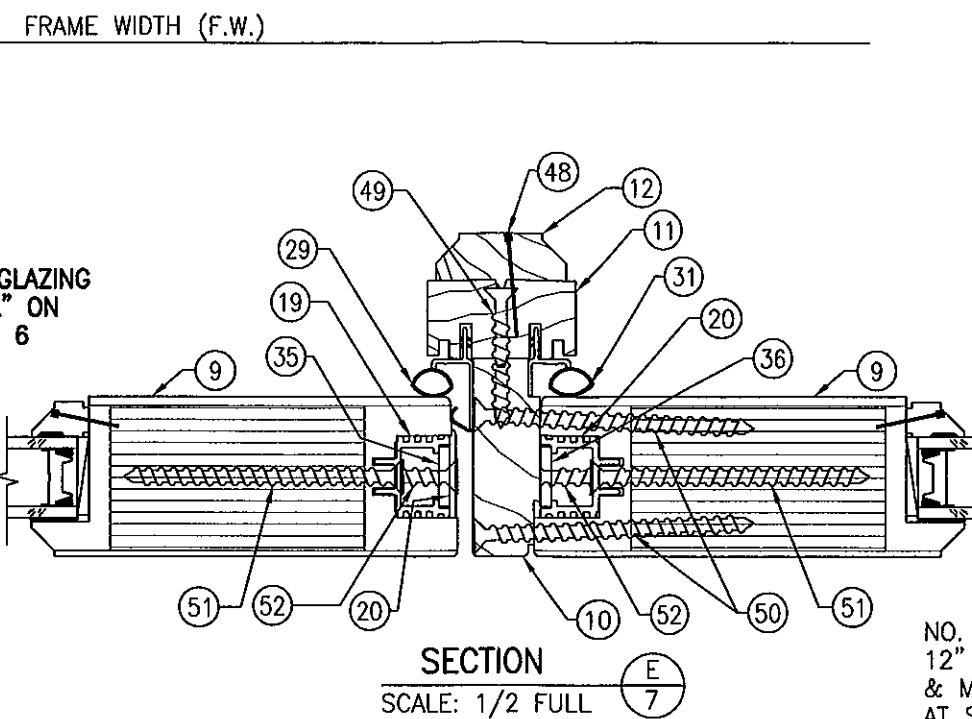
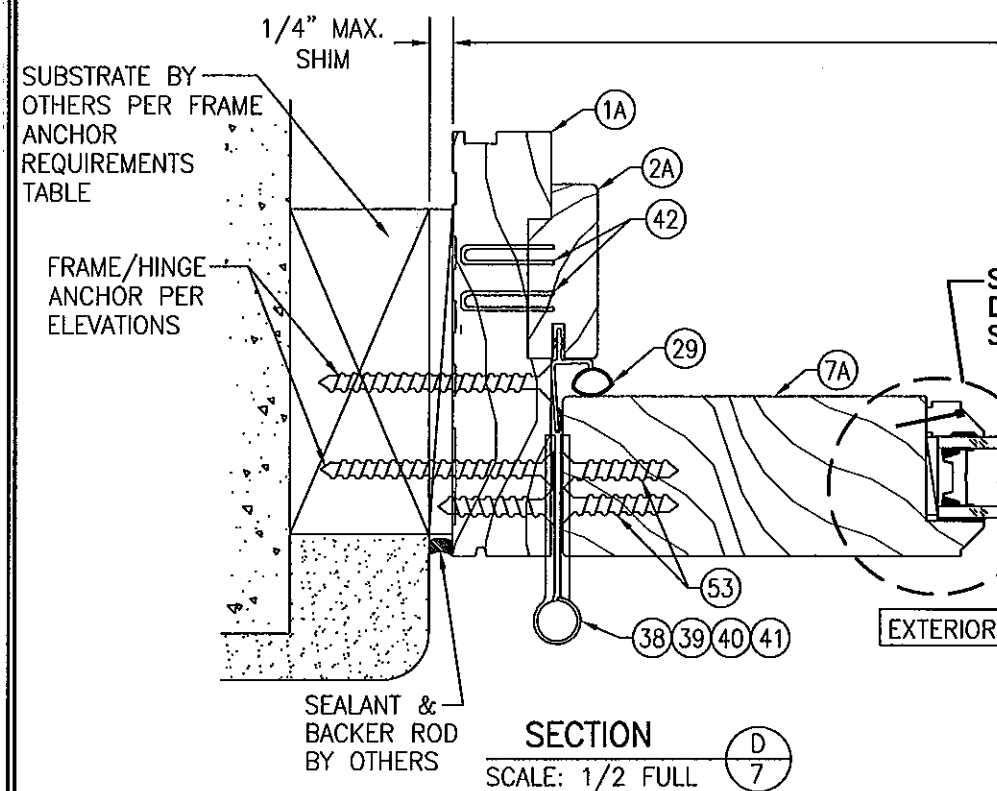
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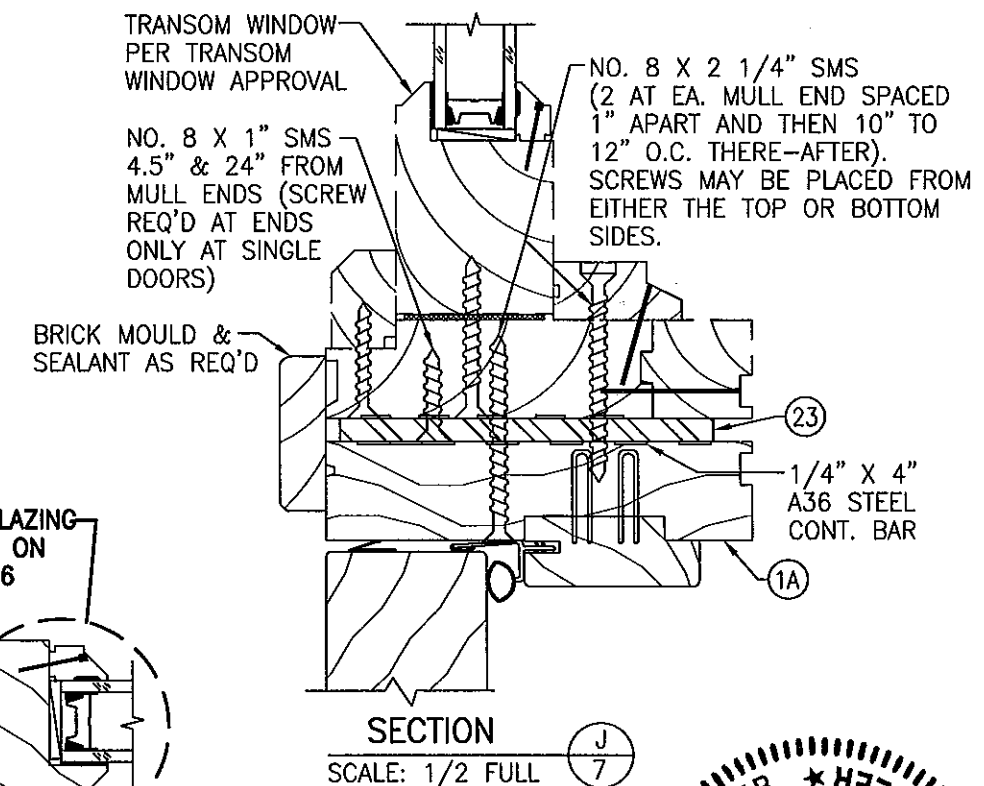
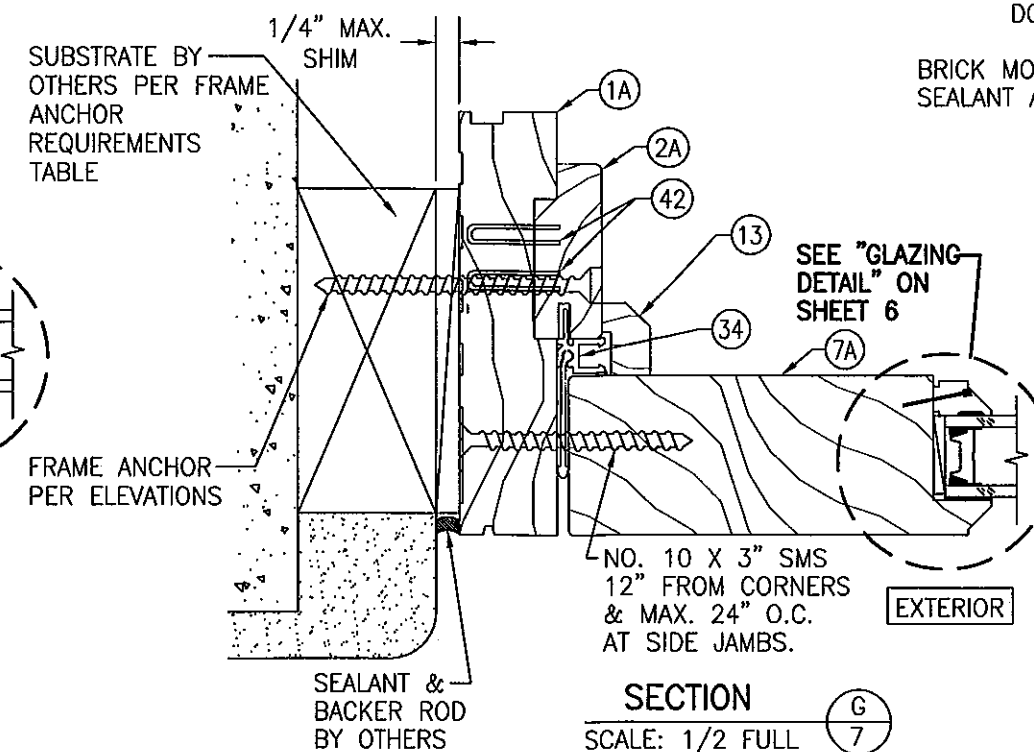
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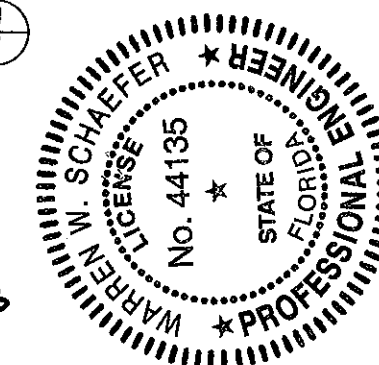


SEE SHEET 6 FOR "OPTIONAL DIRECT MOUNT" & "OPTIONAL CLIP INSTALLATION DETAILS."

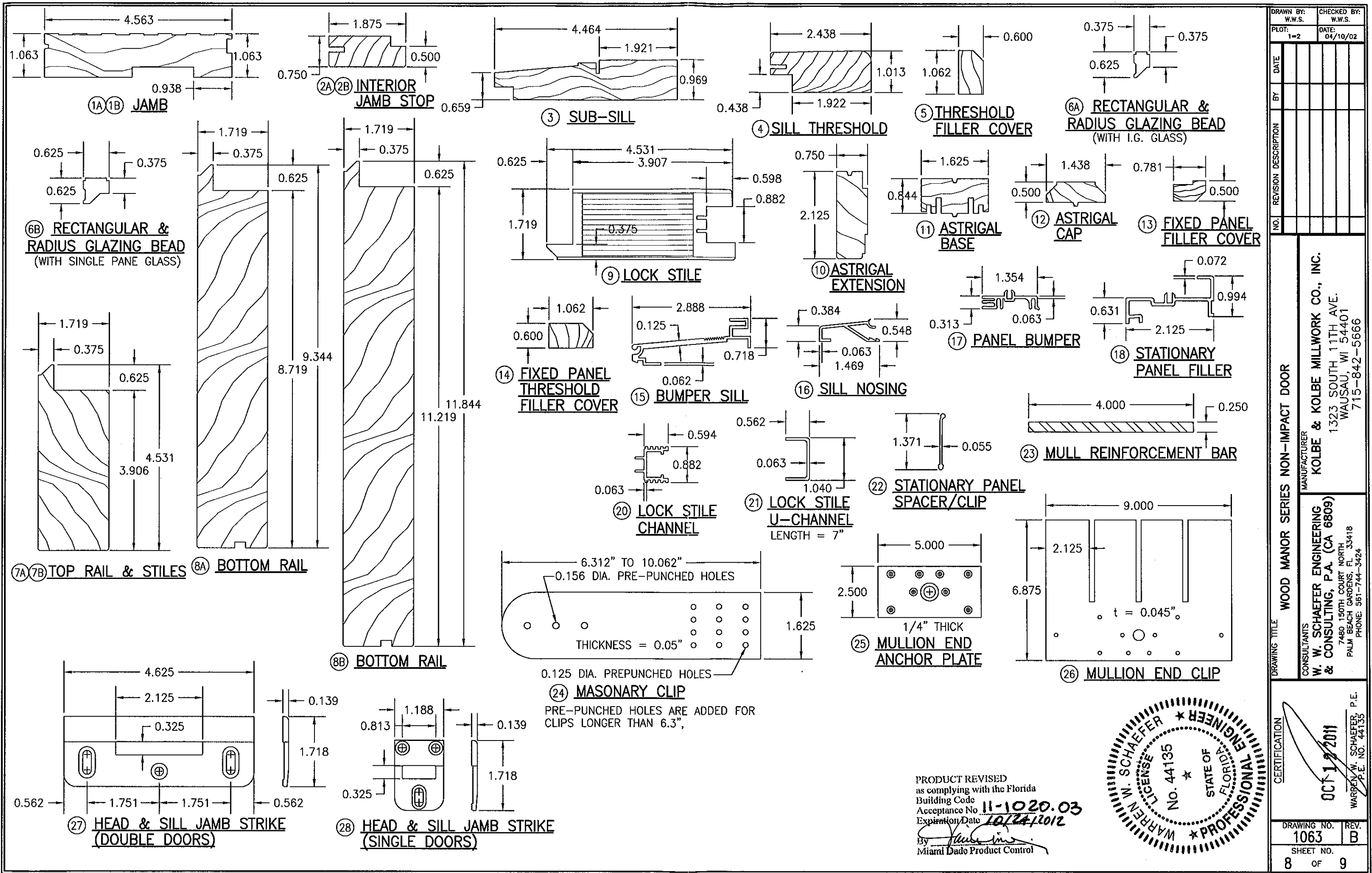


PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 11-1020-03 Expiration Date 10/24/2012

By *[Signature]*  
Miami Made Product Control



DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 04/10/02
DATE	BY
REVISION DESCRIPTION	NO.
<p>DRAWING TITLE: WOOD MANOR SERIES NON-IMPACT DOOR</p> <p>CONSULTANTS: W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</p> <p>MANUFACTURER: KOLBE &amp; KOLBE MILLWORK CO., INC.</p> <p>1323 SOUTH 11TH AVE. WAUSAU, WI 54401 715-842-5666</p> <p>7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424</p>	
CERTIFICATION	<p>DATE: 06/12/2011</p> <p>WARREN W. SCHAEFER, P.E. NO. 44135</p>
DRAWING NO. 1063	REV. B
SHEET NO. 7	OF 9



DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 04/10/02	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: <b>WOOD MANOR SERIES NON-IMPACT DOOR</b> MANUFACTURER: <b>KOLBE &amp; KOLBE MILLWORK CO., INC.</b> 1323 SOUTH 11TH AVE. WAUSAU, WI 54401 715-842-5666 CONSULTANTS: <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION: OCT 12 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1063		REV. B	
SHEET NO. 8		OF 9	

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 as complying with the Florida  
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 By   
 Miami Dade Product Control

ITEM #	PART	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1A	2634	LINEAL FRAME JAMB	* WOOD
1B	2634	RADIAL FRAME JAMB	LVL
2A	2759	INTERIOR LINEAL JAMB STOP	* WOOD
2B	2759	INTERIOR RADIAL JAMB STOP	LVL
3	2771	SUB-SILL	* WOOD
4	2772	SILL THRESHOLD	* WOOD
5	2775	THRESHOLD FILLER COVER	* WOOD
6A	1006	GLAZING BEAD (WITH I.G. GLASS)	* WOOD
6B	1008	GLAZING BEAD (WITH SINGLE PANE GLASS)	* WOOD
7A	1615	HINGED & FIXED STILES & LINEAL TOP RAIL	* WOOD
7B	1615	RADIAL TOP RAIL	* WOOD (FINGER JOINTED)
8A	1617	BOTTOM RAIL FOR 6' 10" DOORS	* WOOD
8B	1617	BOTTOM RAIL FOR DOORS TALLER THAN 6' 10"	* WOOD
9	1645	LOCK STILE	LVL CORE WITH VINEER
10	2638	ASTRIGAL EXTENSION	* WOOD
11	2745	ASTRIGAL BASE	* WOOD
12	2734	ASTRIGAL CAP	* WOOD
13	2797	FIXED PANEL FILLER COVER	* WOOD
14	2775	FIXED PANEL THRESHOLD FILLER COVER	* WOOD
15	B1020	BUMPER SILL	6063-T5 ALUMINUM
16	B1024	SILL NOSING	6063-T5 ALUMINUM
17	B5025	PANEL BUMPER	RIGID PVC BY PPI
18	BU605	STATIONARY PANEL FILLER	6063-T5 ALUMINUM
20	B1099	LOCK STILE CHANNEL	6063-T5 ALUMINUM
21	B1601	7" LONG S.S. LOCK STILE U-CHANNEL	18-8 S.S. (TOP & BOT OF LOCK STILE)
22	B1042	STATIONARY PANEL SPACER/CLIP	6063-T5 ALUMINUM
23	BMFVA	MULLION REINFORCEMENT BAR	A36 STEEL
24	BHDMS	1 5/8" WIDE X 0.05" THK. X MIN. 6 5/16" LONG MASONRY CLIP	ASTM A653 MIN. 33 KSI GALV. STEEL
25	BMFVA	MULLION END ANCHOR PLATE	A36 STEEL
26	BMFVA	MULLION END CLIP	ASTM A653 GALV. STL. (Fy = 50 ksi)
27	BHDXM	HEAD & SILL DOUBLE DOOR STRIKE	6105-T5 ALUMINUM
28	BHDXM	HEAD & SILL SINGLE DOOR STRIKE	6105-T5 ALUMINUM
SEALS & SEALANTS			
29	B5603	BULB/FIN WEATHERSTRIP	INTEK
30	B5089	SILL WEATHERSTRIP	AMESBURY GROUP INC.
31	B5605	BULB/FIN SECONDARY WEATHERSTRIP	INTEK
32	B5604	LEAF WEATHERSTRIP	SANTOPRENE & KRATON; INTEK
33	B5049	EXTERIOR PANEL WEATHERSTRIP	RIGID & FLEXABLE PVC; PPI
34	B5606	STATIONARY PANEL FILLER	RIGID & FLEXABLE PVC; CLIM-A-TECH
HARDWARE			
35	BHDXM	5-POINT LOCK HARDWARE (ACTIVE PANEL)	HTL HLS-9000 SERIES
36	BHDXM	2-POINT LOCK HARDWARE (INACTIVE PANEL)	HTL HLS-9000 SERIES
37	-	HANDLE	AS REQ'D TO OPERATE LOCKS
38	BHG	4X4 BUTT HINGE W/STATIONARY PIN	LAWRENCE BROTHERS (S.S., STL, BRASS OR BRONZE)
39	BHG	4X4 BRONZE COMMERCIAL BUTT HINGE	LAWRENCE BROTHERS (S.S., STL, BRASS OR BRONZE)
40	BHG	4X4 ADJUSTABLE SET HINGE	HTL (S.S., PLATED STL, BRASS OR BRONZE)
41	BHG	4X4 ADJUSTABLE GUIDE HINGE	HTL (S.S., PLATED STL, BRASS OR BRONZE)
MISCELLANEOUS FASTENERS			
42	-	1/8" X 1" STAPLE	2" FROM ENDS & 8" O.C.
43	-	#8 X 1 1/4" PPH ZINK SMS	1" FROM ENDS & 8" O.C.
44	-	#8 X 1 1/4" PPH SMS	2" FROM ENDS & 14" O.C.
45	-	#8 X 1 1/2" PFH SMS	4" FROM ENDS & 13.5" O.C.
46	-	3/4" 18 GA. BRAD NAIL	2" FROM ENDS & 8" O.C.
47	-	#6 X 1 1/4" PFH SMS SCREW	1" FROM ENDS & 8" O.C.
48	-	1/8" X 1 1/8" CROWN STAPLE	1/2" FROM ENDS & 8" O.C.
49	-	#8 X 1 3/4" SMS	4" FROM ENDS & 12" O.C.
50	-	#8 X 3" PFH SMS (2 ROWS)	2" FROM ENDS & 6 TO 8" O.C.
51	-	#10 X 3" PFH SMS	6 PER CHANNEL SPACED ALONG STILE
52	-	#10 X 3" PFH SMS	2 PER TOP & 1 PER BOTTOM U-CHANNEL
53	-	HINGE SCREWS	SEE HINGE FASTENING NOTE THIS SHEET

NOTE: WOOD USED IN TESTING WAS PINE WITH A SPECIFIC GRAVITY OF G = 0.43 & E = 1,200,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY AND MODULUS OF ELASTICITY EQUAL TO OR GREATER THAN THAT USED WITH TESTING. ALL WOOD IS MINIMUM GRADE 2 MILLED BY KOLBE & KOLBE TO SELECT.

#### HINGE FASTENING:

COMMERCIAL BUTT HINGE NO. 44:  
TO PANEL: NO. 12 X 1 1/4" PFH BRASS OR S.S. (4 PER HINGE)  
TO FRAME: NO. 12 X 1 1/4" PFH BRASS OR S.S. (2 PER TOP & BOTTOM HINGE; 3 PER MIDDLE HINGE)

BUTT HINGE NO. 43:  
TO PANEL: NO. 10 X 3/4" & #10 X 2" PFH BRASS OR S.S. (2 EACH PER TOP & BOTTOM HINGE; THREE 3/4" & ONE 2" PER EA. MIDDLE HINGE)  
TO FRAME: NO. 10 X 3/4" PFH BRASS OR S.S. (2 PER TOP & BOTTOM HINGE; 3 PER MIDDLE HINGE) (SEE SECTIONS FOR ADDITIONAL LONG SCREW INTO SUBSTRATE)

ADJUSTABLE HINGE NO. 45 & 46:  
TO PANEL: NO. 8 X 1 3/4" PFH BRASS OR S.S. (4 PER HINGE)  
TO FRAME: NO. 9 X 3/4" PFH BRASS OR S.S. (2 PER TOP & BOTTOM HINGE; 3 PER MIDDLE HINGE) (SEE SECTIONS FOR ADDITIONAL LONG SCREW INTO SUBSTRATE)

#### ALLOWABLE DESIGN LOADS (MULLED DOORS PER ELEVATION SHEET 3)

ALLOWABLE DESIGN LOADS ARE CONTROLLED BY THE INDIVIDUAL UNIT PRESSURES SHOWN IN THE TABLES BELOW WITH THE LESSER ALLOWABLE LOAD OF ANY ONE UNIT CONTROLLING THE ENTIRE ASSEMBLY. CONFIGURATIONS SHALL BE LIMITED TO THOSE SPECIFIED ON THE ELEVATION SHEET 3 OF THESE DRAWINGS.

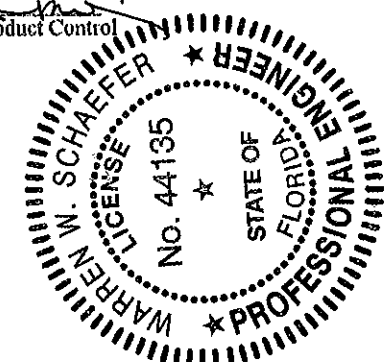
ALLOWABLE DESIGN LOADS (SINGLE "O" & "X" DOORS)			
FRAME HEIGHT (IN.)	FRAME WIDTH (IN.)	PRESSURE (PSF)	
		* POS.	NEG.
79.375	26.125	70.0	90.8
	30.750	70.0	89.7
	32.125	70.0	86.8
	34.125	70.0	81.6
	36.750	70.0	75.7
82.625	38.125	70.0	72.9
	26.125	70.0	87.2
	30.750	70.0	86.1
	32.125	70.0	83.4
	34.125	70.0	78.4
86.625	36.750	70.0	72.7
	38.125	70.0	70.0
	26.125	65.0	85.9
	30.750	65.0	84.9
	32.125	65.0	82.2
95.500	34.125	65.0	77.3
	36.750	65.0	71.6
	38.125	65.0	69.0
	26.125	65.0	82.6
	30.750	65.0	81.5
98.625	32.125	65.0	79.0
	34.125	65.0	74.2
	36.750	65.0	68.8
	38.125	65.0	66.3
	26.125	65.0	80.9

ALLOWABLE DESIGN LOADS (DOUBLE "XX" DOORS)			
FRAME HEIGHT (IN.)	FRAME WIDTH (IN.)	PRESSURE (PSF)	
		* POS.	NEG.
79.375	60.125	70.0	90.8
	60.875	70.0	89.7
	62.875	70.0	86.8
	66.875	70.0	81.6
	72.125	70.0	75.7
82.625	74.875	70.0	72.9
	60.125	70.0	87.2
	60.875	70.0	86.1
	62.875	70.0	83.4
	66.875	70.0	78.4
86.625	72.125	70.0	72.7
	74.875	70.0	70.0
	60.125	65.0	85.9
	60.875	65.0	84.9
	62.875	65.0	82.2
95.500	66.875	65.0	77.3
	72.125	65.0	71.6
	74.875	65.0	69.0
	60.125	65.0	82.6
	60.875	65.0	81.5
98.625	62.875	65.0	79.0
	66.875	65.0	74.2
	72.125	65.0	68.8
	74.875	65.0	66.3
	60.125	65.0	80.9

ALLOWABLE DESIGN LOADS (TRANSOM UNITS PER ELEVATION SHEET 4)		
SINGLE "O" & "X" DOORS		
MULLION SPAN (IN.)	PRESSURE (PSF)	
	* POS.	NEG.
26.125	65.0	94.9
30.750	65.0	80.6
32.125	65.0	77.1
34.125	65.0	72.6
36.750	65.0	67.4
38.125	65.0	65.0
DOUBLE "XX" DOORS		
MULLION SPAN (IN.)	PRESSURE (PSF)	
	* POS.	NEG.
60.125	65.0	80.9
60.875	65.0	79.9
62.875	65.0	77.4
66.875	65.0	72.8
72.125	65.0	67.5
74.875	65.0	65.0

ALLOWABLE LOAD ON THE ASSEMBLY SHALL BE LIMITED BY THE LESSER OF THE LOAD LISTED IN THIS TABLE OR THAT ALLOWABLE FOR EACH OF THE INDIVIDUAL UNITS.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 11-1020.03  
Expiration Date 10/24/2012  
By *Warren W. Schaefer*  
Miami Dade Product Control



DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 04/10/02	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE WOOD MANOR SERIES NON-IMPACT DOOR			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER KOLBE & KOLBE MILLWORK CO., INC. 1323 SOUTH 11TH AVE. WAUSAU, WI 54401 715-842-5666	
CERTIFICATION OCT 12 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1063	
SHEET NO. 9 OF 9		REV. B	